Army Panel on Sustainable Ranges

30th Environmental & Energy Symposium and Exhibition
National Defense Industrial Association

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(Environment, Safety and Occupational Health)

Tuesday, April 6, 2004

The Panel

- **Gregory Bean**, Colonel, US Army, Director, Public Works Business Center, Fort Bragg.

- **William G. Ross, Jr.**, Secretary, North Carolina Department of Environment and Natural Resources.

- **John Gerlach**, Deputy Project Manager, Brigade Combat Team, Program Executive Office, Ground Combat Vehicles.

Army Range Sustainability

Why a Range Sustainability Initiative?

The Army must train as it fights…

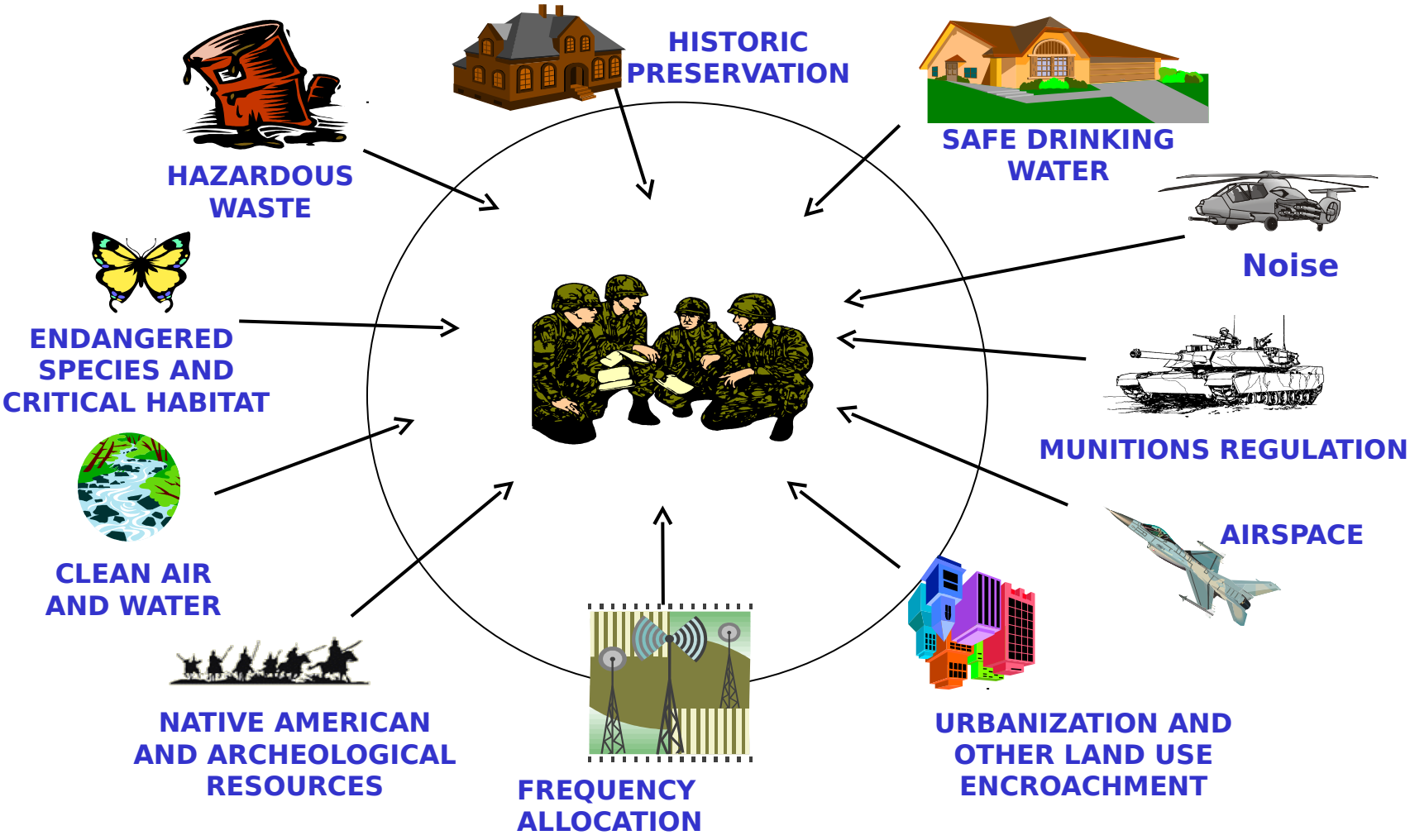
…because we will surely fight as we have trained.

The first time soldiers experience realistic battlefield conditions must not be in combat.

Live training

Soldiers practicing what they will do during combat.

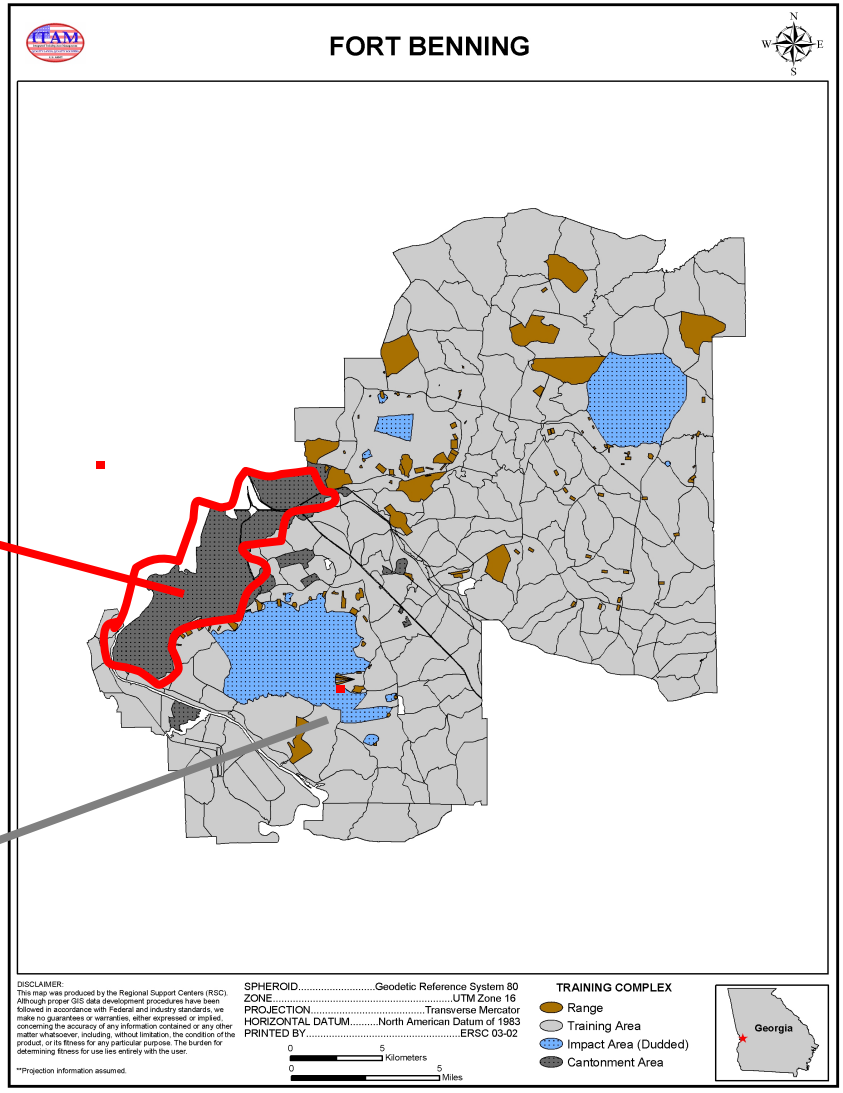
Increasing Pressures on Training and Test



A Typical Army Installation

- **Cantonment – A city/industrial complex - not environmentally unique.**

- **Range Complex – A uniquely configured landscape that supports unique Army Mission activities**


FORT BENNING
DISCLAIMER:
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**Projection information assumed.
SPHEROID.....Geodetic Reference System 80
ZONE.....UTM Zone 16
PROJECTION.....Transverse Mercator
HORIZONTAL DATUM.....North American Datum of 1983
PRINTED BY.....ERSC 03-02
0 5 Kilometers
0 5 Miles
TRAINING COMPLEX
Range
Training Area
Impact Area (Dudded)
Cantonment Area
Georgia

A Typical Army "Range" Complex

Small Arms Ranges

Crew-served Weapons Ranges

Multi-purpose Ranges

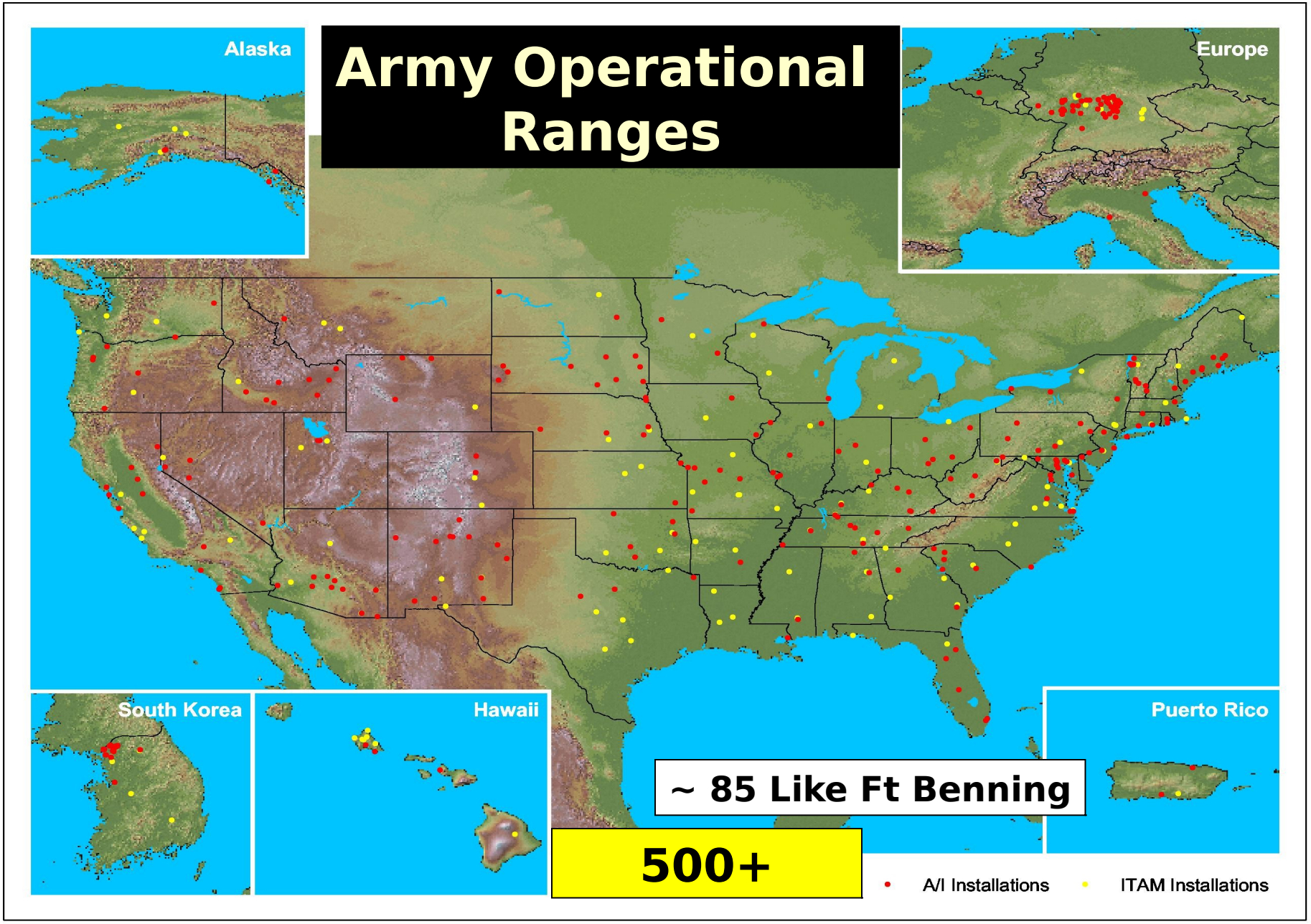
Special Purpose Range

Impact Areas

- **Dudded**
- **Non-dudded**

Training Areas

Ft Benning, GA


Army Operational Ranges
Alaska
Europe
South Korea
Hawaii
Puerto Rico
~ 85 Like Ft Benning
500+
A/I Installations
ITAM Installations

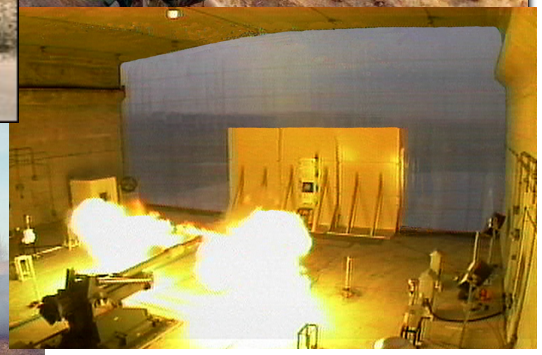
Range Sustainability

…a condition in which ranges and training lands are ***capable***, ***available***, and ***accessible*** to support doctrinal training and testing requirements, mobilization, and deployments under normal and surge conditions, while remaining protective of our environment—***now and in the future***.

Army Range Sustainability Activities

Supporting Range ment

- Data collection
  - **Range Assessments**
  - **Emission Studies**
  - **Threatened & Endangere Species Studies**
- Research
  - **Toxicological Studies**
  - **Fate and Transport Studies**
  - **Corrosion Studies**
  - **Dud Rate**
  - **Range Scrap**
- Technology/Tools
  - **Predictive tools**
  - **Greening Munitions**
  - **Environmental Management Systems (EMS)**

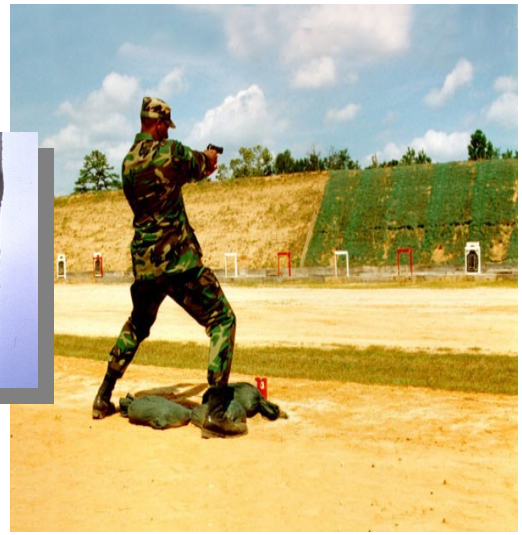


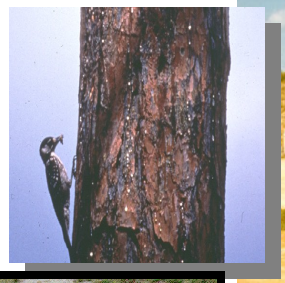
Data Collection

- Range Assessments
  - Regional Range Study (Army Environmental Center)
  - Range Characterizations (Engineer Research & Development Center)
- Emissions Studies
- Threatened & Endangered Species Studies

Research

- Toxicological Studies
- Fate and Transport Studies
- Corrosion Studies
- Dud Rate Study
- Range Scrap





Technology & Tools

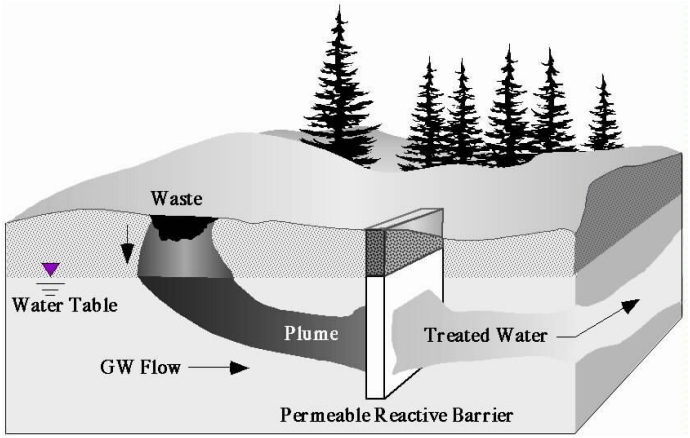
- Predictive Tools
- Greening Munitions
- Range Sustainment Technologies
- EMS

Firing Point

Down Range

Determining Sources

Benign Alternatives



Remediation Technologies

Sustainability

Sustainability moves us beyond simply solving today's problems. It is a paradigm that focuses our thinking and efforts to better address both present and future needs of our installations; strengthens community relationships; and improves our ability to equip, train, and deploy our Soldiers. It connects today to tomorrow with sound business and environmental practices. Sustainability enables today's Army to empower the **Future Force**.

The Mission is Uncompromising